





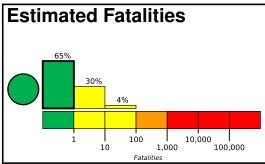
Created: 3 weeks, 0 days after earthquake

# **PAGER**

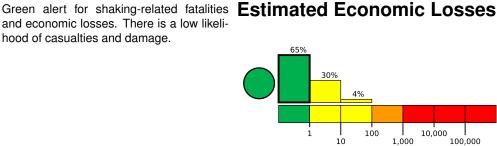
Version 4

# M 4.1, 6 km W of Quilcene, Washington

Origin Time: 2023-12-24 15:14:04 UTC (Sun 07:14:04 local) Location: 47.8326° N 122.9681° W Depth: 45.6 km



and economic losses. There is a low likelihood of casualties and damage.



**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		3,499k*	6,093k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

### Population Exposure

population per 1 sq. km from Landscan

# 5000 122.8°W 121.1°W Bellingham Mount Vernon 48.2°N 47.1°N

#### PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

#### **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

#### **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-03-25	309	5.6	VII(8k)	0
1965-04-29	74	6.5	VIII(131k)	0
1965-04-29	74	6.5	VIII(131k)	7

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Everett	103k
Ш	Sequim	7k
Ш	Stanwood	6k
Ш	Mukilteo	20k
Ш	Langley	1k
II	Hansville	3k
II	Seattle	609k
II	Victoria	290k
II	Olympia	46k
I	Surrey	395k
1	Vancouver	600k

bold cities appear on map.

(k = x1000)

Event ID: uw61977871 https://earthquake.usgs.gov/earthquakes/eventpage/uw61977871#pager